SEQUENCE LISTING

<110> Connex GmbH

<120> Immunological reagent specifically interacting with the extracellular domain of the human zeta chain

<130> C1368PCT

<140>
<141>

<150> EP 98 11 2867.1
<151> 1998-07-10

<160> 18

<170> PatentIn Ver. 2.1

<210> 1
<211> 33
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(33)

<400> 1
cag gca agc cag gac att ggt aat tgg tta gca 33
Gln Ala Ser Gln Asp Ile Gly Asn Trp Leu Ala
1 5 10

<210> 2
<211> 11
<212> PRT
<213> Rattus norvegicus

<400> 2
Gln Ala Ser Gln Asp Ile Gly Asn Trp Leu Ala
1 5 10

<210> 3
<211> 21
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(21)

<400> 3
agt gca acc agc ttg gca gac 21
Ser Ala Thr Ser Leu Ala Asp
1 5

<210> 4
<211> 7
<212> PRT
<213> Rattus norvegicus

<400> 4
Ser Ala Thr Ser Leu Ala Asp
1 5

<210> 5
<211> 27
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(27)

<400> 5
cta cag cgt tat agt aat ccc aac acg 27
Leu Gln Arg Tyr Ser Asn Pro Asn Thr
1 5

<210> 6
<211> 9
<212> PRT
<213> Rattus norvegicus

<400> 6
Leu Gln Arg Tyr Ser Asn Pro Asn Thr
1 5

<210> 7
<211> 30
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(30)

<400> 7
ggc tac aca ttc acc agt tac gat atg cac 30
Gly Tyr Thr Phe Thr Ser Tyr Asp Met His
1 5 10

<210> 8
<211> 10
<212> PRT
<213> Rattus norvegicus

<400> 8
Gly Tyr Thr Phe Thr Ser Tyr Asp Met His
1 5 10

<210> 9
<211> 51
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(51)

<400> 9
tgg att tat cct gga aat ggt aat act aag tac aat caa aag ttc aat 48
Trp Ile Tyr Pro Gly Asn Gly Asn Thr Lys Tyr Asn Gln Lys Phe Asn
1 5 10 15

ggg 51
Gly

<210> 10
<211> 17
<212> PRT
<213> Rattus norvegicus

<400> 10
Trp Ile Tyr Pro Gly Asn Gly Asn Thr Lys Tyr Asn Gln Lys Phe Asn
1 5 10 15

Gly

<210> 11
<211> 42
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(42)

<400> 11
gat tgg cat tac tat agc agc tat atc cgt ccc ttt gct tac 42
Asp Trp His Tyr Tyr Ser Ser Tyr Ile Arg Pro Phe Ala Tyr
1 5 10

<210> 12
<211> 14
<212> PRT
<213> Rattus norvegicus

<400> 12
Asp Trp His Tyr Tyr Ser Ser Tyr Ile Arg Pro Phe Ala Tyr
1 5 10

<210> 13
<211> 369
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(369)

<400> 13
cag gta cag ctg cag caa tct ggg gct gaa cta gtg aag cct ggg tcc 48

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ser
1 5 10 15

tca gtg aaa att tcc tgc aag gct tct ggc tac aca ttc acc agt tac 96
Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

gat atg cac tgg ata aaa cag cag cct gga aat ggc ctt gag tgg att 144
Asp Met His Trp Ile Lys Gln Gln Pro Gly Asn Gly Leu Glu Trp Ile
35 40 45

ggg tgg att tat cct gga aat ggt aat act aag tac aat caa aag ttc 192
Gly Trp Ile Tyr Pro Gly Asn Gly Asn Thr Lys Tyr Asn Gln Lys Phe
50 55 60

aat ggg aag gca aca ctc act gca gac aaa tcc tcc agc aca gcc tat 240
Asn Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

atg cag ctc agc agc ctg aca tct gag gac tct gca gtc tat ttc tgt 288
Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

gca aga gat tgg cat tac tat agc agc tat atc cgt ccc ttt gct tac 336
Ala Arg Asp Trp His Tyr Tyr Ser Ser Tyr Ile Arg Pro Phe Ala Tyr
100 105 110

tgg ggc caa ggc act ctg gtc act gtc tct tca 369
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 14
<211> 123
<212> PRT
<213> Rattus norvegicus

<400> 14
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ser
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
20 25 30

Asp Met His Trp Ile Lys Gln Gln Pro Gly Asn Gly Leu Glu Trp Ile
35 40 45

Gly Trp Ile Tyr Pro Gly Asn Gly Asn Thr Lys Tyr Asn Gln Lys Phe
50 55 60

Asn Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys
85 90 95

Ala Arg Asp Trp His Tyr Tyr Ser Ser Tyr Ile Arg Pro Phe Ala Tyr
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 15
<211> 321
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (1)..(321)

<400> 15

```
gac atc cag atg aca cag tct cct gct tcc ctg tct gcg tct ccg gaa   48
Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Pro Glu
  1               5                  10                  15

gaa att gtc acg atc aca tgc cag gca agc cag gac att ggt aat tgg   96
Glu Ile Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asn Trp
             20                  25                  30

tta gca tgg tat cag cag aaa cca ggg aaa tct cct caa ctc ctg atc   144
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Gln Leu Leu Ile
         35                  40                  45

tat agt gca acc agc ttg gca gac ggg atc cca tca agg ttc agc ggc   192
Tyr Ser Ala Thr Ser Leu Ala Asp Gly Ile Pro Ser Arg Phe Ser Gly
     50                  55                  60

agt aga tct ggt aca cag tat tct ctt aag atc agc aga cta cag gtt   240
Ser Arg Ser Gly Thr Gln Tyr Ser Leu Lys Ile Ser Arg Leu Gln Val
 65                  70                  75                  80

gaa gat act gga atc tat tac tgt cta cag cgt tat agt aat ccc aac   288
Glu Asp Thr Gly Ile Tyr Tyr Cys Leu Gln Arg Tyr Ser Asn Pro Asn
                 85                  90                  95

acg ttt gga gct ggg acc aag ctg gag ctg aaa                      321
Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
            100                 105
```

<210> 16
<211> 107
<212> PRT
<213> Rattus norvegicus

<400> 16

```
Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Pro Glu
  1               5                  10                  15

Glu Ile Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Gly Asn Trp
             20                  25                  30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Gln Leu Leu Ile
         35                  40                  45

Tyr Ser Ala Thr Ser Leu Ala Asp Gly Ile Pro Ser Arg Phe Ser Gly
     50                  55                  60

Ser Arg Ser Gly Thr Gln Tyr Ser Leu Lys Ile Ser Arg Leu Gln Val
 65                  70                  75                  80

Glu Asp Thr Gly Ile Tyr Tyr Cys Leu Gln Arg Tyr Ser Asn Pro Asn
                 85                  90                  95

Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys
```

100 105

<210> 17
<211> 1637
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial sequence

<400> 17
gaattcacca tgggatggag ctgtatcatc ctcttcttgg tagcaacagc tacaggtgta 60
cactccgata tccagatgac acagtctcct gcttccctgt ctgcgtcccc ggaagaaatt 120
gtcacgatca catgccaggc aagccaggac attggtaatt ggttagcatg gtatcagcag 180
aaaccaggga aatctcctca actcctgatc tatagtgcaa ccagcttggc agacgggatc 240
ccatcaaggt tcagcggcag tagatctggt acacagtatt ctcttaagat cagcagacta 300
caggttgaag atactggaat ctattactgt ctacagcgtt atagtaatcc caacacgttt 360
ggagctggga ccaagctgga gctgaaaggt ggtggtggtt ctggcggcgg cggctccggt 420
ggtggtggtt ctcaggtaca gctgcagcaa tctggagctg agctagtgaa gcctgggtcc 480
tcagtgaaaa tttcctgcaa ggcttctggc tacacattca ccagttacga tatgcactgg 540
ataaaacagc agcctggaaa tggccttgag tggattgggt ggatttatcc tggaaatggt 600
aatactaagt acaatcaaaa gttcaatggg aaggcaacac tcactgcaga caaatcctcc 660
agcacagcct atatgcagct cagcagcctg acatctgagg actctgcagt ctatttctgt 720
gcaagagatt ggcattacta tagcagctat atccgtccct ttgcttactg gggccaaggc 780
actctggtca ctgtctcttc cggaggtggt ggttctgagg tgcagctgct cgagcagtct 840
ggagctgagc tggcgaggcc tggggcttca gtgaagctgt cctgcaaggc ttctggctac 900
accttcacaa actatggttt aagctgggtg aagcagaggc ctggacaggt ccttgagtgg 960
attggagagg tttatcctag aattggtaat gcttactaca atgagaagtt caagggcaag 1020
gccacactga ctgcagacaa atcctccagc acagcgtcca tggagctccg cagcctgacc 1080
tctgaggact ctgcggtcta tttctgtgca agacggggat cctacgatac taactacgac 1140
tggtacttcg atgtctgggg ccaagggacc acggtcaccg tctcctcagg tggtggtggt 1200
tctggcggcg gcggctccgg tggtggtggt tctgagctcg tgatgaccca gactccactc 1260
tccctgcctg tcagtcttgg agatcaagcc tccatctctt gcagatctag tcagagcctt 1320
gtacacagta atggaaacac ctatttacat tggtacctgc agaagccagg ccagtctcca 1380
aagctcctga tctacaaagt ttccaaccga ttttctgggg tcccagacag gttcagtggc 1440
agtggatcag ggacagattt cacactcaag atcagcagag tggaggctga ggatctggga 1500
gtttatttct gctctcaaag tacacatgtt ccgtacacgt tcggaggggg gaccaagctt 1560
gagatcaaac gtacgactag ccatcaccat caccatcaca ctagctaatt aatttaagcg 1620
gccgctctag agtcgac 1637

<210> 18
<211> 532
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial sequence

<400> 18
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
1 5 10 15

Val His Ser Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala
20 25 30

Ser Pro Glu Glu Ile Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile
35 40 45

Gly Asn Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Gln

```
     50                  55                  60

Leu Leu Ile Tyr Ser Ala Thr Ser Leu Ala Asp Gly Ile Pro Ser Arg
 65                  70                  75                  80

Phe Ser Gly Ser Arg Ser Gly Thr Gln Tyr Ser Leu Lys Ile Ser Arg
                 85                  90                  95

Leu Gln Val Glu Asp Thr Gly Ile Tyr Tyr Cys Leu Gln Arg Tyr Ser
            100                 105                 110

Asn Pro Asn Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys Gly Gly
        115                 120                 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Val Gln
    130                 135                 140

Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ser Ser Val Lys
145                 150                 155                 160

Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Asp Met His
                165                 170                 175

Trp Ile Lys Gln Gln Pro Gly Asn Gly Leu Glu Trp Ile Gly Trp Ile
            180                 185                 190

Tyr Pro Gly Asn Gly Asn Thr Lys Tyr Asn Gln Lys Phe Asn Gly Lys
        195                 200                 205

Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr Met Gln Leu
    210                 215                 220

Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg Asp
225                 230                 235                 240

Trp His Tyr Tyr Ser Ser Tyr Ile Arg Pro Phe Ala Tyr Trp Gly Gln
                245                 250                 255

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Glu Val Gln
            260                 265                 270

Leu Leu Glu Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala Ser Val
        275                 280                 285

Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Leu
    290                 295                 300

Ser Trp Val Lys Gln Arg Pro Gly Gln Val Leu Glu Trp Ile Gly Glu
305                 310                 315                 320

Val Tyr Pro Arg Ile Gly Asn Ala Tyr Tyr Asn Glu Lys Phe Lys Gly
                325                 330                 335

Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Ser Met Glu
            340                 345                 350

Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys Ala Arg
        355                 360                 365

Arg Gly Ser Tyr Asp Thr Asn Tyr Asp Trp Tyr Phe Asp Val Trp Gly
    370                 375                 380

Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly
385                 390                 395                 400
```

```
Gly Gly Ser Gly Gly Gly Gly Ser Glu Leu Val Met Thr Gln Thr Pro
                405                 410                 415

Leu Ser Leu Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg
            420                 425                 430

Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His Trp
        435                 440                 445

Tyr Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val
    450                 455                 460

Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser
465                 470                 475                 480

Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu
                485                 490                 495

Gly Val Tyr Phe Cys Ser Gln Ser Thr His Val Pro Tyr Thr Phe Gly
            500                 505                 510

Gly Gly Thr Lys Leu Glu Ile Lys Arg Thr Thr Ser His His His His
        515                 520                 525

His His Thr Ser
    530
```